

Site Controller III

Technician's Guide

Version 3.0

Part Number C35922

Gasboy CFN Series

Site Controller III Technician's Guide

Version 3.0

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Lansdale, Pennsylvania**

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Site Controller III Related Publications

Site Controller III - version 3.0

Part No.	Title
C35920	SC III Manager's Manual, version 3.0
C09226	SC III Configuration Manual, version 3.0
C35921	SC III Pocket Reference, version 3.0
C09204	Check Point Reference Manual
C35745	Profit Point Clerk's Manual - version 2.1
C35746	Profit Point Reference Manual - version 2.1
C09215	Point of Sale and Shift Change, version 003

Pump Interface

C09146	Pump Interface Manual
C01745	Current Loop Interface Unit Manual

Card Encoding and Miscellaneous

C09136	CFN Series Clubcard Format
C01687	CFN Series Card Encoding Manual

Remote Communications

C09141	PC/SiteControl User's Manual
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Technical Publications

C01759	CFN Diagnostic Manual
C35922	Technician's Manual

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SCIII and OS/2



Overview

This guide steps through the installation of the Site Controller III boards, installing the OS/2 and Site Controller software, creating desktop icons, and other information necessary to install a Site Controller III.

Provided Equipment

Site Controller III board assembly

PC - which consists of:

- keyboard
- mouse
- case (PC tower)
- power cable
- diskettes

Monitor - one of the following:

- 9" B/W monitor - part number C09502
- 14" B/W monitor - part number C09503
- 14" color monitor - part number C09504

Monitor cable

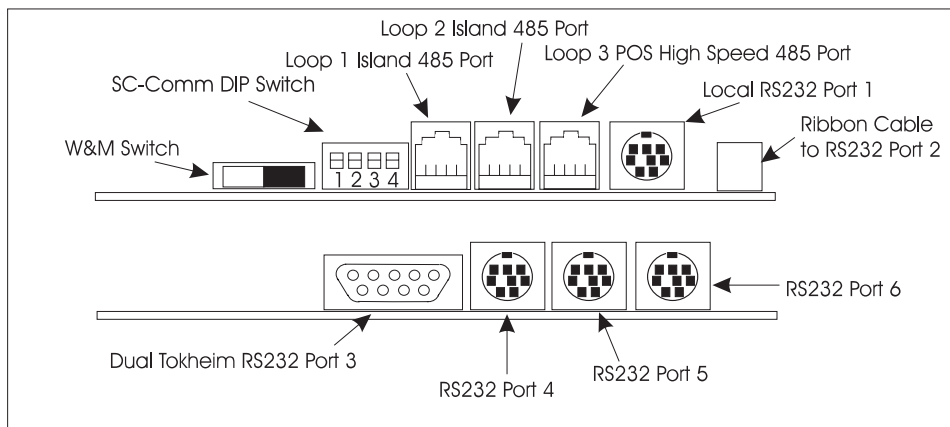
Manuals

Optional Equipment - depending on setup

Modem cable
 Modem
 Parallel printer
 Serial printer
 Printer cables
 Wayne SCIII cable
 Tokheim cable
 POS Distribution box with cables
 Customer display
 Pin Pad
 Cash Drawer
 UPC scanner

Cable and Wiring

The following drawing illustrates the SCIII cable layout:



- Port 1, Local RS232 - use cable number C05994, SCIII terminal cable assembly.
- Port 2, Ribbon Cable to RS232 - use ribbon cable number C05554 (not currently used).
- Port 3, RS232 - use cable number C05996 - two 67/98 box or C07119 - single 67/98 box, SCIII to Tokheim cable assembly.
- Port 4, RS232 use cable number C05995, SCIII modem cable assembly.
- Port 5, RS232 use cable number C06006, SCIII Wayne cable assembly.
- Port 6 is extra and can be used as either a modem or Wayne.

Note: Ports 1, 4, 5 and 6 are interchangeable.

Loops 1, 2, and 3 - use cable number C05670, cable assembly 4 position 1:1 HS/Line - 8ft. phone cable.

Site Controller Board Installation

1. Identify and set all switches. Refer to a later chapter in this manual for reference.
2. If PC is powered up, turn off and unplug the PC.
3. Remove the PC tower cover. The SCIII boards require two full length, ISA side by side slots in the PC tower. Locate two side by side slots and remove the slot covers if they are still attached.
4. Slide the boards gently into the ISA slots of the PC motherboard. Make sure that the front of the boards rest on the brackets of the tower and the back bracket aligns with the screw hole.
5. Screw the board bracket onto PC and replace cover.
6. Turn on the PC, booting from the OS/2 install diskette or CD.
7. Follow the instructions on the screen. If you are installing from diskettes, you will be using several to install the OS/2 operating system. Under most install circumstances take the default options that appear.
8. Choose easy install. If you are re-installing from a disk crash then you must choose Advanced Installation. If you need assistance with the advanced install, contact your IBM representative.

For Advanced Installation only: When prompted, select these two options;

1. Do not format the partition
2. FAT file system - for Windows compatibility

After several diskettes you will boot from the OS/2 screen. Follow the instructions.

System Configuration

Take the defaults listed for the system configuration except for:

- Primary Display - select **VGA** from the options listed.
- Do not install TCP/IP.
- Do not install a printer driver unless you have separate OS/2 and log printers.

Note: You cannot have the log printer assigned to the same port as an OS/2 printer driver.

When the setup is completed, click OK. Another screen will give you the option of learning about OS/2. Click **Quit** to bypass this option or Ok if you want to learn more.

Screen Saver

VGA monitors do not need screen savers but if you want to enable the screen saver that comes with OS/2 use the following steps from the desktop - not a window:

1. Place the arrow (cursor) someplace on the screen that doesn't cover an icon.
2. Press the right mouse button. A small window will open.
3. From the options, select Properties.
4. In Auto Lockup (lower left), set the delay that you want.

- 2 - Report Package
- 3 - HTML on-line documentation
- Q - Quit.

Select the package by entering the numbers with a space between them as in this example:

1 2 3 4

Do not use a comma or omit the spacebar between the numbers. Then press return. You will be given the chance to correct or make any changes.

The installation process takes several diskettes. You will notice that you will be prompted to replace some BIN files that don't exist if this is a new installation. Type the letter A in uppercase, you will not be prompted again.

Replace the diskettes as requested at the prompt.

If you should need to stop the installation process press **CTRL** C. You will return to the C:\ prompt. You will need to start the install process from the beginning when you return. It is not recommended that you stop the installation process.

When you insert diskette number 3 and press return, the window will change to a DOS window to install the Profit Point software. When it has completed the installation the window will return to OS/2.

Note: If the internal Profit Point has problems, check if the following exist in the config.sys file. If they do, *comment* them out from the file by placing REM in front of the line.

REM device=c:\tcpip.bin\vdostcp.vdd

REM device=c:\tcpip\bin\vdostcp.sys

REM run=c:\tcpip\bin\VDOSCTL.EXE

Printer setup (optional)

1. Double click on the **OS/2 system** icon to open.
2. Select **System Setup** from the displayed icons and double click on the icon.
3. In the System Setup window. Select the Install/Remove icon. In the Install/Remove window, select the **Selective Install** icon. The System Configuration menu appears.
4. Click on the printer icon, located in the lower right corner. A window will open displaying a list of printers on the left and port options on the right.
5. Select **LPT1** by clicking in the radio button next to the words LPT1.
6. Then, select your printer from the listed options by clicking once on the words to highlight.
7. Click **OK** to return to the System Configuration menu.
8. In the System Configuration menu, click **NEXT** until the OS/2 install window opens.
9. In the OS/2 install window, click the **Install** button. A small Source Directory window will appear to select what drive to install the software from. The default, if you have been installing from a CD, is

D:\OS2 image

(If you were installing from diskettes, the window will display A:)

10. Click install to install the printer software for your printer. Once installed, close any remaining open windows. You may have to reboot your PC for the changes to take effect.

Netscape Navigator Browser

Installation

Instructions on installation and how to use the browser come with the purchased software. Install Netscape according to the instructions given with your purchased copy.

Once Netscape Navigator is installed, open the browser by double clicking on the Netscape icon on the desktop. See the Netscape documentation on how to use the browser.

On-line Documentation setup

The installation of the SCIII software will automatically install the correct path to the on-line documentation. The setup described here is for reference only.

The Index.htm is the main page to access all of the documentation. It is also known as the Home page through out the documentation. At any time when using the documents, click on the word Home or Home Page and you will return to this page (Index.htm) to select another document. Home page or Home is a term used on the Internet for the base or beginning page.

To open a document, click on the name of the manual you wish to review.

Finding the Home page

1. Open Netscape Navigator. It may complain about not being able to establish a connection. Ignore this error message by clicking OK, the browser will open anyway. Once you set the startup page to point to a local file (as instructed below) this will go away.
2. From the **Menu** bar at the top of the page select **File-Open file**. A window will open. Find your on-line documentation folder on the C: drive. This should be located in the path C:\SC3\HTML. When you locate your on-line folder, open it and select the file called ***Index.htm***.
3. When the path is displayed in the File name box, press **OK**.
4. The program will display the document ***Index.htm***. This is the beginning of the on-line documentation.

Set up Netscape Navigator to open this page every time you start the browser:

1. From the **Menu** bar, select **Options-General Preferences**.
2. From the Appearance selection - middle of the page - Enter the path to ***Index.htm*** in the box "Browser Starts With:" It will be C:\SC3\HTML\index.htm or similar.
3. Click **OK**. Now the browser will display ***Index.htm*** as the start page every time you open the browser.
4. To Quit, from the **Menu** bar select **File-Exit**.

Once the browser is set to open the Index. htm on the local disk (C:\) it will no longer produce an error message on startup.

New SCIII configuration menus

As of this writing, the Graphical User Interface will not be shipping with release 3.0x. As currently set up only 90% of the site information could be entered and that was only at startup. The complete interface will ship with a later release and will allow 100% of the SCIII to be configured at setup and at any other time for configuration changes. You will not have to use the R* window.

Icons

Creating the desktop icon for SCIII

This function is automatically done at the installation process if you use the install program. If for some reason that you need to create an icon, use the following steps.

1. Open the OS2 system folder by clicking on the icon using the LEFT mouse button.
2. Double-click on the **Command Prompts** icon.
3. Click once on the **OS/2 window** icon using the RIGHT mouse button.
4. Click once on the arrow to the right of **Create Another** using the LEFT mouse button and select **New Program**.



5. At the top of the appearing window, enter **SC3** in the Name box.

6. From the options listed, select **Desktop** by clicking once on the name with the left mouse button.
7. Click the **Create** button at the lower left of the screen.
8. Another window will automatically open. In the **Program** tab, enter the path:

C:\SC3\SC3.exe

If the path is correct and the icon is in the same directory as the .exe file, then the program will automatically find the icon and display it on the desktop when the windows are closed.

If the icon is not found, you will need to locate the file on the release diskettes. Place in the SC3 directory and follow these instructions again.

Creating the Profit Point desktop icon

This function is automatically done at the installation process if you use the install program. If for some reason that you need to create an icon, use the following steps.

1. Click once on the **CFN icon** on the desktop using the RIGHT mouse button.
2. Click once on the arrow to the right of **Create Another** using the LEFT mouse button and select **New Program**.
3. At the top of the appearing window, enter **Profit Point** in the Name box.
4. Click the **Create** button at the lower left of the screen.



5. Another window will open. In the **Program** tab -
 - a. Enter the path = **C:\bin\menu.bat**
 - b. Set the parameter = **1**
 - c. Working directory = **C:\pos**
4. In the **Session** tab -
 - a. Choose **DOS Full Screen**, then click on the DOS Properties button. Select **OK** for all DOS Settings.
 - b. Highlight **DOS_HIGH**. In the Value box, set to **On**.
 - c. Highlight **DOS_AUTOEXEC**. In the Value box, type **C:\bin\OS2exec.bat**.
 - d. Highlight **DPMI_DOS_API**. In the Value box select **Enabled**.

- e. Highlight **DOS DEVICE**. In the Value box **DELETE** any text listed.
- f. Highlight **DOS files**. In the Value box set the number of sessions that can be opened. The default is 20. The setting in the installation program is **50**.
7. In the **Icon** tab, find the PP icon by clicking the **Find** button. In the appearing window type the name of the icon file (**pp.ico**) in the **Name** box and in the Start folder enter **C:\SC3**.



When the icon is displayed, click **OK**.



If the icon is not found, you will need to locate the file on the release diskettes. Place in the SC3 directory and follow these instructions again.

8. Click **Save** and close the windows.

Creating the SC3 Help desktop icon

This function is automatically done at the installation process if you use the install program. If for some reason that you need to create an icon, use the following steps.

1. Click once on the **CFN icon** on the desktop using the **RIGHT** mouse button.
2. Click once on the arrow to the right of **Create Another** using the **LEFT** mouse button and select **New Program**.
3. At the top of the appearing window, enter **SC3 On-line** in the Name box.
4. Click the **Create** button at the lower left of the screen.
5. In the **Icon** tab, find the Help icon by clicking the **Find** button. In the appearing window type the name of the icon file (**help.ico**) in the **Name** box and in the Start folder enter **C:\SC3**.

When the icon is displayed, click **OK**.

If the icon is not found, you will need to locate the file on the release diskettes.

Place in the SC3 directory and follow these instructions again.

6. Click **Save** and close the windows.

Starting the Icon editor provided with OS/2

In a OS/2 session, at the prompt type

iconedit

This will start the icon editor program to create or change existing icons.

Site Controller III Ports and Switches



For your general information, the ports and switches are listed in this manual. You can find this same information in Appendix A of the SCIII Manager's Manual.

Front panel components

- Power Switch - controls the power to the Site Controller III PC system
- PC reset Switch - resets the PC but leaves the SC Comm operations running
- PC Power Indicator - indicates that power is being supplied to the controller
- Hard Disk Status Indicator - lights when the disk is being accessed

Serial/Parallel Ports

The RS232 ports on the SC can be used for any function that needs a RS232 port. The ports on the PC are more limited. Com1-4 can be used for login, log printers, and command output may be directed to them. LPT1-2 can only be used as log printers or command output.

The SCIII has one more RS422 channel available than the SCII. This has been assigned to be another island loop. Broadcast messages will be sent to both of these channels. The POS loop is the only loop that Profit Points can be connected to.

The following is a list of ports and their assignments:

Name	Channel	Location	Function
CON	0	PC CRT/Keyboard	Local port login
SC1	1	COMM CPU top DIN	RS232
SC2	2	COMM CPU 26 pin ribbon	RS232 all cont. lines
SC3	3	COMM MEM DB-9	Tokheim pumps
SC4	4	COMM MEM bottom DIN	RS232
SC5	5	COMM MEM middle DIN	RS232
SC6	6	COMM MEM top DIN	RS232
COM1	7	PC	RS232
COM2	8	PC	RS232
COM3	9	PC	RS232
COM4	10	PC	RS232
LPT1	11	PC	Parallel output
LPT2	12	PC	Parallel output
LOOP1	N/A	COMM CPU bottom handset	Island loop
LOOP2	N/A	COMM CPU middle handset	Island loop
LOOP3	N/A	COMM CPU top handset	POS loop

DIP Switch Settings

Memory Board DIP Switch SC-Memory I/O - S1

On the SC MEMORY I/O board top left DIP switch:

Position & Definition		Setting
1	Boot to monitor after reset Boot to OS after reset	open closed
2	Debug mode Normal	open closed
3	Don't talk to PC while in monitor Monitor I/O goes to PC also	open closed
4	Monitor I/O goes to SC port 1 No monitor I/O to SC port 1	open closed

Memory Board DIP Switch SC-Memory I/O - S2

On the SC MEMORY I/O board top right DIP switch:

Position & Definition		Setting
1	Battery 1	open=disabled closed=enabled
2	Battery 2	open=enabled closed=disabled
3	N/A	unused
4	N/A	unused

PC IRQ Switch, SC-COMM CPU - S1

On the SC-COMM CPU board in the bottom, middle DIP switch is the IRQ enable DIP switch. The IRQ enable switch chooses one of the four possible interrupt priorities. Only one may be selected and no other device on the PC can use that interrupt. SC3.EXE currently assumes level 15. Other choices are 12, 11, and 10.

1	Closed IRQ - 15	Default - closed
2	Closed IRQ - 12	Default - open
3	Closed IRQ - 11	Default - open
4	Closed IRQ - 10	Default - open

PC Address Switch, SC-COMM CPU - S2

On the CPU board, bottom right, the PC address DIP sets where in the PC address space the Dual RAM will occur. The SC-Comm board currently assumes D0000.

Switch	Address	Switch	Address
cl cl cl cl	C0000	op cl cl cl	D6000
cl cl cl op	C3000	op cl cl op	D9000
cl cl op cl	C6000	op cl op cl	DC000
cl cl op op	C7000	op cl op op	DF000
cl op cl cl	CC000	op op cl cl	E0000
cl op cl op	CF000	op op cl op	E3000
cl op op cl	D0000*	op op op cl	E6000
cl op op op	D3000	op op op op	E9000

SC3 Comm Board DIP Switch CPU - S3

SC3 Comm Board DIP Switch S3, position 4, default signon.

Jumper Settings

SC-Comm CPU Board settings

Jumper	Description	Setting
K3	AC power fail sense	2-3 to enable 1-2 to disable *
K4	AC watch dog timer	1-2 to enable *
K5	SC-Comm CPU (testing only)	1-2 to reset
K6	RS-485 loop 1,	2-3 for 4 wire * 1-2 for 2 wire
K7	RS-485 loop 2,	2-3 for 4 wire 1-2 for 2 wire *
K8	Rx Clock from synchronous modem (DB-25-15)	1-2 to connect
K9	ETC output to synchronous modem (DB-25-24)	1-2 to connect
K10	Tx clock input from synchronous modem (DB-25-17)	1-2 to connect
K11	EPROM type	2-3 for 27128 or 27256
K12	EPROM type	2-3 for 27128 or 27256

* = default

SC-Comm Memory I/O board settings

Jumper	Description	Setting
K1	Date/Time Clock Speed	1-2 for 4 wait state* 2-3 for 1 wait state
K2	Enable A19 to RAM	2-3 for 128Kx8* 1-2 for 512Kx8
K3	RAM size	2-3 for 128Kx8* 1-2 for 512Kx8
K5	Tokheim Reset Output Channel 2 <i>Do not Install, not supported</i>	1-2 for reset

* = default